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APPLICATION NO	. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,162		08/22/2003	Keith C. Thomas	P1976US00	9183
24333	7590	09/07/2006		EXAM	INER
GATEWA ATTN: Pat	•		HUNNINGS, TRAVIS R		
610 GATE		•	ART UNIT	PAPER NUMBER	
MAIL DRO		•	2612		
N. SIOUX	CITY, SD	57049	DATE MAILED: 09/07/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		A					
	Application No.	Applicant(s)					
	10/646,162	THOMAS, KEITH C.					
Office Action Summary	Examiner	Art Unit					
	Travis R. Hunnings	2612					
The MAILING DATE of this communica Period for Reply	tion appears on the cover sheet wit	h the correspondence address					
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communi - If NO period for reply is specified above, the maximum statut - Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNIC 87 CFR 1.136(a). In no event, however, may a re- cation. ory period will apply and will expire SIX (6) MON' , by statute, cause the application to become AB.	CATION. Seply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed	on <i>09 August 2006</i>						
,— .	This action is non-final.						
3) Since this application is in condition for	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ☐ Claim(s) 6 is/are pending in the application 4a) Of the above claim(s) is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction	withdrawn from consideration.						
Application Papers	•						
9) The specification is objected to by the E							
	0)⊠ The drawing(s) filed on <u>19 January 2005</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection							
Replacement drawing sheet(s) including th 11) The oath or declaration is objected to b	•						
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority do	ocuments have been received. Ocuments have been received in A the priority documents have been Il Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage					
Attachment(s)	_						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTC 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date)-948) Paper No(s	tummary (PTO-413) s)/Mail Date Iformal Patent Application 					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fantom Orb Disk Drive (Fantom; www.fantomdrives.com/support/manuals/orb_supplement.pdf).

Regarding claim 6, the claimed indicator configured to provide illumination and being visible from a front panel of the computer system, the illumination of the indicator being provided in response to the presence of a first continuous operating condition is met by the status light (Front Panel drawing) indicating that the drive is ready by a solid green light (During Operation section);

The claimed activity detection circuit coupled to the indicator, the activity detection circuit being configured to generate an activity signal indicative of the presence of a second periodic operating condition associated with a component of the computer system, and to communicate the activity signal to the indicator would have been inherent in the device to operate the functions of detecting the drive being on and loading/unloading/using the disk and altering the status light to reflect the current condition (During Operation section);

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The claimed indicator is configured to be interrupted from illuminating in response to the presence of the first continuous operating condition by the activity signal to thereby produce an indication of the second periodic operating condition comprising intervals when the indicator is interrupted from illuminating in response to the presence of the first continuous operating condition is met by the flashing amber light to indicate that the disk is loading or in use which would interrupt the constant green light (During Operation section);

The claimed continuous indication by the activity indicator being characterized by illumination of the activity indicator and interruption of the continuous indication of the activity indicator is characterized by extinguishing the activity indicator is met by the steady green light indicating that there is power to the device and the flashing amber light indicating the reading or writing of data to the disk (LED Indicator Definitions section). One of ordinary skill in the art would have considered the flashing amber light to be extinguishing the activity indicator;

The claimed first continuous operating condition including a power-on operating condition and the second periodic condition including a hard disk drive operating condition is met by the green light indicating power being present to the device and the flashing amber light indicating data being written or read on the ORB disk (LED Indicator Definitions section). One of ordinary skill in the art would have considered reading or writing data to an ORB disk to be a hard disk drive operating condition because hard disk drives also read or write data to a disk;

The claimed single color LED of the activity indicator is the only visible indication of the first continuous operating condition and the single color LED of the activity indicator is the only visible indicator of the second periodic operating condition is met by the status light being lit and being the only visible indication of the first condition and the flashing light being the only visible indication of the second condition.

Fantom does not specifically disclose the claimed activity indicator including a single color LED however it would have been obvious to one of ordinary skill in the art that a single color LED would be able to accomplish the same indication by providing a steady indication when no disk access was occurring (representing the steady green light as disclosed by Fantom) and also able to provide the flashing indication when disk accesses were occurring (representing the flashing amber light as disclosed by Fantom) and using a single color LED would lower costs. Therefore it would have been obvious to one of ordinary skill in the art to use a single color LED. Also at any point in time, the disclosed indicator of Fantom is always indicating only a single color, whether it be green, amber or red and would therefore be providing single-color indication and would therefore be considered a single-color LED by one of ordinary skill in the art.

Response to Arguments

3. Applicant's arguments filed 9 August 2006 have been fully considered but they are not persuasive. Applicant argues the following:

functionality of the device.

Argument A: The modification of ORB to use a single-color LED instead of three LEDs, one for each color, would not be suitable because it would degrade the

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Argument B: It is incorrect to assume that one of ordinary skill in the art would degrade the functionality of ORB by using a single-color LED instead of three separate LEDs in order to lower the cost.

Responses:

Regarding argument A and B, Examiner still contends that using a single-color LED would still be able to provide the same level of indication to the user as the three separate color LEDs as described by ORB. The single-color LED could provide three separate indications just as three different colors. The three separate indications would be a steady-on condition (indicating the drive is powered on), a flashing condition (indicating a drive-access) and a steady-off condition (indicating an error). Therefore, replacing the three LEDs with a single-color LED would not degrade the functionality of ORB and would easily lead someone of ordinary skill in the art to realize that costs would be lowered by having to purchase only 1 LED per drive unit instead of 3 LEDs.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Travis R. Hunnings whose telephone number is (571) 272-3118. The examiner can normally be reached on 8:00 am - 5:00 pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel J. Wu can be reached on (571) 272-2964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TRH

SUPERVISORY PATENT EXAMINER

9/61/06